International Application No PCT/US2004/030986

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K38/17 C07K14/47						
According to International Patent Classification (IPC) or to both national classification and IPC						
	SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K C07K						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic d	ata base consulted during the international search (name of data bas	e and, where practical, search terms used)				
EPO-Internal, BIOSIS, MEDLINE, Sequence Search, WPI Data, PAJ						
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to daim No.			
X	AL-ZOUBI ADEEB M ET AL: "Contras effects of IG20 and its splice is MADD and DENN-SV, on tumor necros alpha-induced apoptosis and activ caspase-8 and -3" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 276, no. 50, 14 December 2001 (2001-12-14), pa 47202-47211, XP002317870 ISSN: 0021-9258 Discussion abstract	oforms, is factor ation of	1-20			
X Furt	her documents are listed in the continuation of box C.	Patent family members are listed in	n annex.			
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance		T* later document published after the international filing date or priority date and not in conflict with the application but clted to understand the principle or theory underlying the invention				
L document which may throw doubts on priority claim(s) or		'X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone				
which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled						
"P" docume tater ti	ent published prior to the international filing date but han the priority date claimed	in the art. &" document member of the same patent family				
Date of the	actual completion of the International search	Date of mailing of the international sear	rch report			
16 February 2005		07/03/2005				
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2		Authorized officer				
NL – 2280 HV Rijswijk TeL (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016		Griesinger, I				

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0 (0 1)	n) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °		Relevant to claim No.
X	EFIMOVA ELENA V ET AL: "Differential effects of IG20 and its splice isoform, DENN-SV, on cell proliferation and apoptosis" FASEB JOURNAL, vol. 16, no. 5, 22 March 2002 (2002-03-22), page A1083, XP009044048 & ANNUAL MEETING OF PROFESSIONAL RESEARCH SCIENTISTS ON EXPERIMENTAL BIOLOGY; NEW ORLEANS, LOUISIANA, USA; APRIL 20-24, 2002 ISSN: 0892-6638 abstract	1-20
X	SCHIEVELLA ANDREA R ET AL: "MADD, a novel death domain protein that interacts with the type 1 tumor necrosis factor receptor and activates mitogen-activated protein kinase" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 272, no. 18, 1997, pages 12069-12075, XP002317872 ISSN: 0021-9258 abstract page 12069, right-hand column, paragraph 2	1-20
X	ZHANG Y ET AL: "A splicing variant of a death domain protein that is regulated by a mitogen-activated kinase is a substrate for c-Jun N-terminal kinase in the human central nervous system" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 95, no. 5, 3 March 1998 (1998-03-03), pages 2586-2591, XP002214181 ISSN: 0027-8424 abstract page 2586, right-hand column, paragraph 3	1-20
A	HILGER R A ET AL: "THE RAS-RAF-MEK-ERK PATHWAY IN THE TREATMENT OF CANCER" ONKOLOGIE, KARGER, FREIBURG, DE, vol. 25, no. 6, December 2002 (2002-12), pages 511-518, XP009008407 ISSN: 0378-584X abstract	1-20

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	PCT/US2004/030986			
C.(Continua	ontinuation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
P,X	EFIMOVA ELENA V ET AL: "IG20, in contrast to DENN-SV, (MADD splice variants) suppresses tumor cell survival, and enhances their susceptibility to apoptosis and cancer drugs." ONCOGENE, vol. 23, no. 5, 5 February 2004 (2004-02-05), pages 1076-1087, XP002317873 ISSN: 0950-9232 abstract		Relevant to claim No. 1–20	
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: — because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-18 could be interpreted to be directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7,14-20 (all claims partially)

IG20 and the use of IG20 or of antibodies, anti-sense or SiRNA molecules thereof to regulate cell death or cell replication.

1.1. claims: 1-20 (all claims partially)

DENN-SV and the use of DENN-SV or of antibodies, anti-sense or SiRNA molecules thereof to regulate cell death or cell replication.

1.2. claims: 1-20 (all claims partially)

Splice variant of IG20 different to DENN-SV and the use of said splice variant or of antibodies, anti-sense or SiRNA molecules thereof to regulate cell death or cell replication (if more than one further splice variant is claimed, each of said further splice variants is considered to be a further subinvention.